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FILEID**XFDEF

F 3

XFS
V04

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XX	XX	FFFFF	DDDDDDDD	EEEEEEE	FFFFF
XX	XX	FF	DD	DD	EE
XX	XX	FF	DD	DD	EE
XX	XX	FF	DD	DD	EE
XX	XX	FF	DD	DD	EE
XX	XX	FFFFF	DD	DD	EEEEEE
XX	XX	FFFFF	DD	DD	EEEEEE
XX	XX	FF	DD	DD	EE
XX	XX	FF	DD	DD	EE
XX	XX	FF	DD	DD	EE
XX	XX	FF	DD	DD	EE
XX	XX	FF	DDDDDDDD	EEEEEEE	FF
XX	XX	FF	DDDDDDDD	EEEEEEE	FF

C Version: 'V04-000'

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C Modified by:

C V03-001 Steve Beckhardt 1-Jun-1982
C Corrected definitions for XFSM_IOS_CMDSTD and
C XFSM_IOS_DRVABT bits.

C Function Codes

PARAMETER	XFSK_PKT_RD = 0 ,	!read device
1	XFSK_PKT_RDCHN = 1,	read device chained
1	XFSK_PKT_WRT = 2,	write device
1	XFSK_PKT_WRTCHN = 3,	write device chained
1	XFSK_PKT_WRTCM = 4,	write control message
1	XFSK_PKT_SETTST = 6,	set self test
1	XFSK_PKT_CLRTST = 7,	clear self test
1	XFSK_PKT_NOP = 8,	no-op
1	XFSK_PKT_DIAGRI = 9,	diagnstic read internal
1	XFSK_PKT_DIAGWI = 10,	diagnostic wrt internal
1	XFSK_PKT_DIAGRD = 11,	diagnostic read DDI
1	XFSK_PKT_DIAGWC = 12,	diag write control msg
1	XFSK_PKT_SETRND = 13,	set random enable
1	XFSK_PKT_CLRRND = 14,	clear random enable
1	XFSK_PKT_HALT = 15,	set halt

C Interrupt Control Codes

PARAMETER	XFSK_PKT_UNCOND = 0,	!unconditional interrupt
1	XFSK_PKT_TMQMT = 64,	int if TERMQ empty
1	XFSK_PKT_NOINT = 128	do not deliver int

C Command Control Codes
C

```
PARAMETER XFSK_PKT_NOTRAN = 0, !no transmission
1 XFSK_PKT_CB = 8, !send only command byte
1 on Control Interconnect
1 XFSK_PKT_CBDM = 16, !send command byte and
1 device message
1 XFSK_PKT_CBDMBC = 24 !send command byte,
1 dev msg, and byte count
```

C Other Modes Values
C

```
PARAMETER XFSK_PKT_SUPLEN = 32 !suppress length error
PARAMETER XFSK_PKT_INSHD = 256 !insert pkt at head
PARAMETER XFSK_PKT_INSTL = 0 !insert pkt at tail of q
```

C Masks for error bits set in the IO Status Block
C

```
PARAMETER XFSM_IOS_CIPE = '20000000'X,
1 XFSM_IOS_CMDSTD = '2'X,
1 XFSM_IOS_DDIDIS = '10'X,
1 XFSM_IOS_DDIERR = '80'X,
1 XFSM_IOS_DIPE = '40000000'X,
1 XFSM_IOS_DRVABT = '2000'X,
1 XFSM_IOS_FREQMT = '200'X,
1 XFSM_IOS_FREQPK = '8'X,
1 XFSM_IOS_INVDDI = '800'X,
1 XFSM_IOS_INVPKT = '100'X,
1 XFSM_IOS_INVPTE = '4'X,
1 XFSM_IOS_LENERR = '1000'X,
1 XFSM_IOS_LOG = '40'X,
1 XFSM_IOS_NEXREG = '20'X,
1 XFSM_IOS_NORMAL = 1,
1 XFSM_IOS_PARERR = '80000000'X,
1 XFSM_IOS_RDSERR = '2000000'X,
1 XFSM_IOS_RNDENB = '400'X,
1 XFSM_IOS RNGERR = '40'X,
1 XFSM_IOS_SBIERR = '1000000'X,
1 XFSM_IOS_SLFTST = '20'X,
1 XFSM_IOS_UNQERR = '80'X,
1 XFSM_IOS_WCSPE = '10000000'X
```

C Masks for error bits set in DSL in packet
C

```
PARAMETER XFSM_PKT_CMDSTD = '2000'X,
1 XFSM_PKT_DDIDIS = '10'X,
1 XFSM_PKT_DDIERR = '80'X,
1 XFSM_PKT_DRVABT = '2'X,
1 XFSM_PKT_FREQMT = '200'X,
1 XFSM_PKT_FREQPK = '8'X,
1 XFSM_PKT_INVDDI = '800'X,
1 XFSM_PKT_INVPKT = '100'X,
1 XFSM_PKT_INVPTE = '4'X,
```

```
1 XFSM_PKT_LENERR = '1000'X,
1 XFSM_PKT_LOG = '40'X,
1 XFSM_PKT_NEXREG = '20'X,
1 XFSM_PKT_NORMAL = '1'X,
1 XFSM_PKT_RNDENB = '400'X,
1 XFSM_PKT_RNGERR = '40'X,
1 XFSM_PKT_SLFTST = '20'X,
1 XFSM_PKT_UNQERR = '80'X
```

C C SHRS Status Returns
C

```
PARAMETER SHRS_HALTED = '1270'X !transfer is halted
PARAMETER SHRS_QEMPTY = '1280'X !no packet on TERMQ
PARAMETER SHRS_NOCMDMEM = '1278'X !no cmd memory allocated
```

0190 AH-BT13A-SE
VAX/VMS V4.0

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